# Safety Data Sheet according to 1907/2006/EC, Article 31

<table>
<thead>
<tr>
<th>1. Product identification/preparation/company undertaking</th>
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</thead>
<tbody>
<tr>
<td><strong>Product details</strong></td>
</tr>
<tr>
<td><strong>Product no.:</strong> 86001</td>
</tr>
<tr>
<td><strong>Trade name:</strong> BISICO Multi Repair Primer</td>
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<tr>
<td><strong>Trade number:</strong> 76010</td>
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<tr>
<td><strong>Use or preparation:</strong> Dental-bonding-system</td>
</tr>
<tr>
<td><strong>Manufacturer/supplier:</strong> BISICO Bielefelder Dentasilicone GmbH &amp; Co. KG</td>
</tr>
<tr>
<td><strong>Johanneswerkstraße 3</strong></td>
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<tr>
<td><strong>D-33611 Bielefeld</strong></td>
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<tr>
<td><strong>Emergency information:</strong></td>
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<td><strong>Fax: +49 521 8016801</strong></td>
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<table>
<thead>
<tr>
<th>2. Hazards identification</th>
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<tbody>
<tr>
<td><strong>Classification of the substance or mixture:</strong></td>
</tr>
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</table>

## Classification according to Regulation (EC) No 1272/2008:

- GHS02 flame
  - Flam. Liq. 2 H225 Highly flammable liquid and vapour.
- GHS07
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - STOT SE 3 H335 May cause respiratory irritation.

## Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

- Xi; Irritant
  - R37/38: Irritating to respiratory system and skin.
- Xi; Sensitising
  - R43: May cause sensitisation by skin contact.
- F; Highly flammable
  - R11: Highly flammable.

## Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

## Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

## Hazard pictograms:

GHS02, GHS07

## Signal word:

Danger
Hazard-determining components of labelling: methyl methacrylate

Hazard statements:
- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

Precautionary statements:
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 Specific treatment (see on this label).
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Code letter and hazard designation of product:
- Xi Irritant
- F Highly flammable

Hazard-determining components of labelling:

Risk phrases:
- 11 Highly flammable.
- 37/38 Irritating to respiratory system and skin.
- 43 May cause sensitisation by skin contact.

Safety phrases:
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe gas/fumes/vapour/ spray (appropriate wording to be specified by the manufacturer).
- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 60 This material and its container must be disposed of as hazardous waste.

Other hazards:
Results of PBT and vPvB assessment:

PBT: Not applicable.
vPvB: Not applicable.

3. Composition/Information of Ingredients

Chemical characterization:
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:
- CAS: 80-62-6 methyl methacrylate 75-100%
- EINECS: 201-297-1

Additional information: For the wording of the listed risk phrases refer to section 16.
4. First-aid measures

**general information:** Immediately remove any clothing soiled by the product.

**after inhalation:** Take affected persons into fresh air and keep quiet. Seek medical treatment.

**after skin contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**after eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**after swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

5. Fire fighting measures

**Extinguishing media:** Foam, Fire-extinguishing powder, Carbon dioxide

**For safety reasons unsuitable extinguishing agents:** Water with full jet.

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information:** Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources Use respiratory protective device against the effects of fumes/dust/aerosol.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

**Methods for cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

**Additional information:** See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

**Handling:** For dental use only.

**Information for safe handling:** Keep receptacles tightly sealed.

**Recommendation for fire and explosion protection:** Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

**Requirements at storerooms and containers:** Store in a cool location. Close container immediately after use and protect product from light incidence.
8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Components with limits of values to be supervised at the workplace:
- 80-62-6 methyl methacrylate
- OES
  - Short-term value: 416 mg/m³, 100 ppm
  - Long-term value: 208 mg/m³, 50 ppm

Additional information: The lists valid during the making were used as basis.

General measures of protection and hygiene:
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

Respiratory protection:
- Not necessary if room is well-ventilated.
- Use suitable respiratory protective device when high concentrations are present.
- Short term filter device: Filter AX.

Eye/face protection: Safety glasses

Body protection: Solvent resistant protective clothing
(Only when handling large quantities)

Protection of hands: Protective gloves.
- Material of gloves: Butyl rubber, BR
- Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

9. Physical and chemical properties

Appearance:
- Form: fluid
- Color: colourless
- Odour: characteristic

<table>
<thead>
<tr>
<th>pH-value:</th>
<th>Value</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Change in condition
- Melting point/Melting range: -48 °C
- Boiling point/Boiling range: 101 °C
- Flash point: 10 °C
- Ignition temperature: 430 °C
- Self-igniting: Product is not selfigniting.
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**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**
- **Lower:** 2.1 Vol %
- **Upper:** 12.5 Vol %

**Vapour pressure at 20°C:** 47 hPa

**Density:** 0.94 g/cm³

**Solubility in/miscibility with:**
- **Water:** 1.6 g/l
- **Viscosity:** Not determined

**Solvent content:** Organic solvents: 0.0 %

**10. Stability and reactivity**

**Conditions to avoid:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** Reacts with peroxides and other radical forming substances
- Danger of polymerization

**Incompatible materials:** In presence of radical formers (e.g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

**Hazardous decomposition products:** No dangerous decomposition products known

**11. Toxicological information**

**Acute toxicity:**
- LD/LC50 values relevant for classification:
  - methyl methacrylate LD-50 oral >5000 mg/kg rat (lit.)
  - LD-50 inhalative 7093 ppm/4h rat (lit.)

**Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Slightly irritating.

**Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. Irritant

**12. Ecological information**

**Toxicity:**

**Acquatic toxicity:** No further relevant information available.

**Type of test** | **Effective concentration** | **Method** | **Assessment**
--- | --- | --- | ---
Toxicity to fish: (MMA) | LC-50: >79 mg/l | OECD 203 | Time: 96 h EEC84 Species: Oncorhynchus mykiss
 | NOEC: 40 mg/l | ISO 7346 |
Toxicity to Micro-Organisms (MMA) | ECO: 100 mg/l | starting inhibition |
 | Species: Pseudomonas putida | of cell growth |
Behaviour in environmental systems:
Components: methyl methacrylate
Biodegradability: 30.7%
Time: 28 d
Method: OECD 301 C
Valuation: difficult to decompose

Classification of water endangerment:
Water hazard class 1 (German Regulation) (Self-assessment):
slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

13. Disposal consideration
Product:
Recommendation:
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:
08 01 12 waste paint and varnish other than those mentioned in 08 01 11

Uncleaned packaging:
Recommendation:
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Recommended cleansing agents:
Alcohol

14. Transport information
Land transport ADR, RID:
- ADR/RID class: 3 (F1) Flammable liquids.
- Danger code (Kemler): 339
- UN-Number: 1247
- Packaging group: II
- Hazard label 3
- UN proper shipping name: 1247 METHYL METHACRYLATE MONOMER, STABILIZED, solution
- Tunnel restriction code D/E

Maritime transport: IMDG-Code:
- IMDG Class: 3
- UN Number: 1247
- Label 3
- Packaging group: II
- EMS Number: F-E,S-D
- Marine pollutant: No
- Proper shipping name: METHYL METHACRYLATE
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**MONOMER, STABILIZED, solution**

### Air transport ICAO-TI/IATA-DGR:

- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1247
- **Label:** 3
- **Packaging group:** II
- **Proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED, solution

### UN "Model Regulation":

UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, solution, 3, II

### Special precautions for user

**Warning:** Flammable liquids.
### 15. Regulatory information

<table>
<thead>
<tr>
<th>Water contaminating class (D):</th>
<th>Water hazard class 1 (Self-assessment): slightly hazardous for water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information about limitation of use:</td>
<td>Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.</td>
</tr>
<tr>
<td>Technical instructions (air):</td>
<td>Class Share in %</td>
</tr>
<tr>
<td></td>
<td>NK 75-100</td>
</tr>
<tr>
<td>Chemical safety assessment:</td>
<td>A Chemical Safety Assessment has not been carried out.</td>
</tr>
</tbody>
</table>

### 16. Other information:

**Changes compared with the previous version:**

Adaptation according to 1907/2006/EG, Article 31

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.

**Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- R11 Highly flammable.
- R37/38 Irritating to respiratory system and skin.
- R43 May cause sensitisation by skin contact.

**ADR:** Accord euro péen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**RID:** Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

**IMDG:** International Maritime Code for Dangerous Goods

**IATA:** International Air Transport Association

**IATA-DGR:** Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

**ICAO:** International Civil Aviation Organization

**ICAO-TI:** Technical Instructions by the "International Civil Aviation Organization" (ICAO)

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals

**LC50:** Lethal concentration, 50 percent

**LD50:** Lethal dose, 50 percent

**Preparation by:**

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